TYAN

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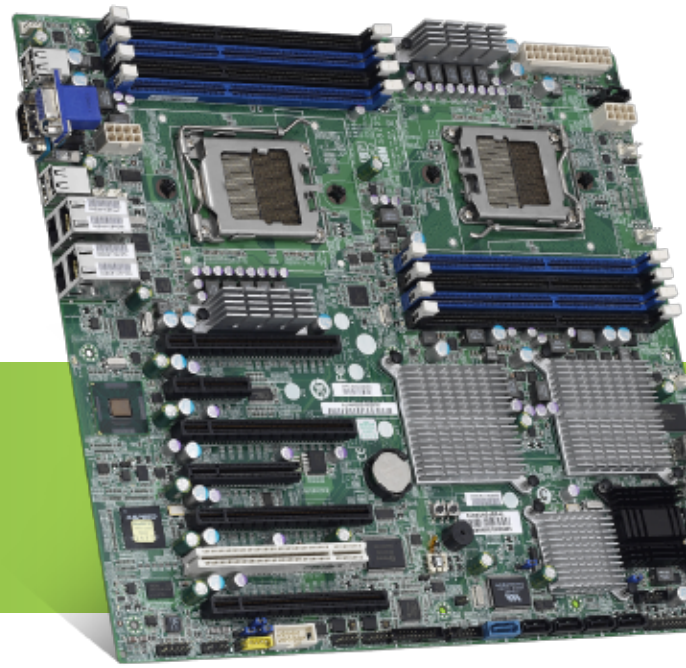
DUAL-SOCKET SERVER PLATFORM



S8225

S8225AGM4NRF / S8225WAGM4NRF

OPTERON PROCESSOR AMD | 32nm | 6 Six Core | 8 Core | HT3 HyperTransport 3.0 | DDR3

■AMD Opteron™ 4100/4200 series

High-End Dual-socket workstation platform for HPC

- Dual C32 socket supports (2) AMD Opteron™ 4100/4200 series processors (Lisbon/Valencia)
- AMD (2)SR5690 North Bridge + SP5100 South
- (4)+(4) 240-pin DDR3 DIMM slots support up to 128GB R-DDR3 and 32GB U-DDR3 1333/1066/800MHz w/ ECC memory
- (4) PCI-E Gen.2 x16 slot (w/ x16 link)
- (1) PCI-E Gen.2 x8 slots (w/ x4 link)
- (1) PCI-E Gen.2 x4 slots (w/ x4 link)
- (1) PCI slot
- (6) SATA-II connectors w/ RAID 0, 1, 10, 5 support
- (2) Mini-SAS connectors for 8 SAS/SATA device w/ RAID 0,1,10
- (4) GbE LAN , from Intel® 82576 and Intel 82574 LAN
- TPM 1.2 (Trusted Platform Module) optional
- Onboard BMC w/ IPMI and iKVM support

Specifications are subject to change without notice. Items pictured may only be representative.

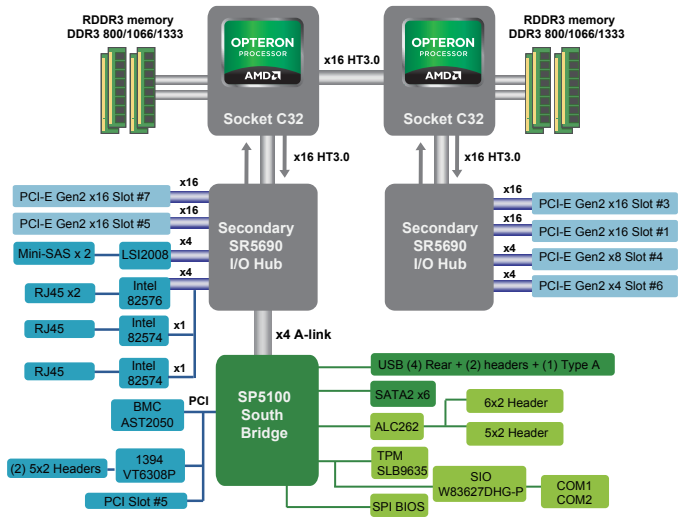
S8225

S8225AGM4NRF / S8225WAGM4NRF

TYAN Specifications

Processor	Supported CPU Series		AMD Opteron™ 4100/4200 series processors
	Socket Type / Q'ty		C32 1207-pin / (2)
	Average CPU Power (ACP) wattage		75W
	System Bus		Up to 6.4 GT/s Hyper-Transport link support
Chipset	Chipset		(2) AMD SR5690 + SP5100
	Super I/O		Winbond W83627
Memory	DIMM slot Qty		(4)+(4) DIMM slots
	DIMM Type / Speed		U/RDDR3 & LV RDDR3, 800/1066/1333MHz
	Capacity		supports up to 128GB RDIMM at 800MHz or 32GB UDIMM at 1066MHz
	Memory channel		2 Channels per CPU
	Memory voltage		1.35V/ 1.5V
Expansion Slots	PCI-E		(4) PCI-E Gen.2 x16 slots (w/ x16 link, Sot#5,7 from 1st SR5690; Slot#1,3 from 2nd SR5690)
			(1) PCI-E Gen.2 x8 slot (w/ x4link from 2nd SR5690, Slot#4)
			(1) PCI-E Gen.2 x4 slot (w/x4 link from 2nd SR5690, Slot#6)
	PCI		(1) PCI 32-bit slots (Slot#2)
Recommended Barebones / Chassis	2U Chassis		FT48
LAN	Port Q'ty		4
	Controller		(2) Intel 82574L / (1) Intel 82576EB
Storage	SAS	Connector	(2) Mini-SAS connectors (support 4 HDD's/cable)
		Controller	LSI SAS2008 (for S8225WAGM4NRF only)
		Speed	6.0 Gb/s
		RAID	RAID 0/1/1E/10 (LSI Integrated RAID)
	SATA	Connector	(6) SATA
		Controller	AMD SP5100
		Speed	3.0 Gb/s
		RAID	RAID 0/1/10/5 (Promise Integrated RAID)
Graphic	Connector type		D-Sub 15-pin
	Resolution		1600x1200@60Hz
	Chipset		Aspeed AST2050
Audio	Onboard Chipset		Realtek ALC262
	Feature		2.1 channel
Firewire	Port Q'ty		(2) IEEE 1394 headers
	Chipset		VIA VT6308P PCI Firewire controller
Input /Output	USB		(9) USB2.0 ports (4 at rear, 4 via cable, 1 Vertical [Type A] onboard)
	COM		(2) ports (1 at rear, 1 via cable)
	SAS		(2) Mini-SAS (4-in-1) connectors
	VGA		(1) D-Sub 15-pin VGA port
	RJ-45		(4) GbE ports
	Power		ATX12V / Universal 24-pin + 8-pin + 8-pin power connectors
	Front Panel		(1) 2x12-pin SSI front panel header
	SATA		(6) SATA-II connectors
	Audio		(1) 2 x 5pin header for front panel audio connector (1) 2 x 6pin header for rear panel audio connector
	Firewire		(2) IEEE 1394 headers

Block Diagram



System Monitoring	Chipset	Winbond W83793G
	Voltage	Monitors voltage for CPU, memory, chipset & power supply
	Fan	(7) 4-pin headers + (1) 20-pin header
	Temperature	Monitors temperature for CPU & system environment
	LED	Fan fail LED indicator / Over temperature warning indicator / Fan & PSU fail LED indicator
	Others	Watchdog timer support
Server Management	Onboard Chipset	Onboard Aspeed AST2050
	AST2050 IPMI Feature	IPMI 2.0 compliant baseboard management controller (BMC) / USB 2.0 virtual hub
	AST2050 iKVM Feature	24-bit high quality video compression / Dual 10/100 Mb/s MAC interfaces
BIOS	Brand / ROM size	AMI / 4MB
	Feature	Plug and Play (PnP) /PCI2.3 /WfM2.0 /SMBIOS2.3 /PXE boot / ACPI 2.0 power management /Power on mode after power recovery / User-configurable H/W monitoring
Physical Dimension	Form Factor	E-ATX
	Board Dimension	12"x13" (305x330mm)
Operating System	OS supported list	Please visit our web site for the latest update.
Regulation	FCC (DoC)	Class B
	CE (DoC)	Yes
Operating Environment	Operating Temp.	10° C ~ 35° C (50° F~ 95° F)
	Non-operating Temp.	- 40° C ~ 70° C (-40° F ~ 158° F)
	In/Non-operating Humidity	90%, non-condensing at 35° C
RoHS	RoHS 6/6 Complaint	Yes
Package Contains	Motherboard	(1) S8225 Motherboard
	Manual	(1) User's manual / (1) Quick Ref. Guide
	Installation CD	(1) TYAN installation CD
	I/O Shield	(1) I/O Shield
	Cable: SATA	(6) SATA signal cables
	Cable: SAS	(2) mini-SAS cables (for S82225WAGM4NRF only)

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